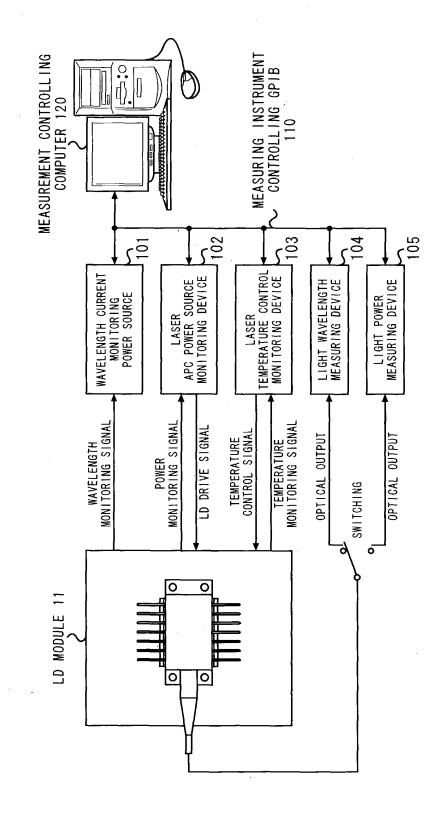
FIG. 1 PRIOR ART



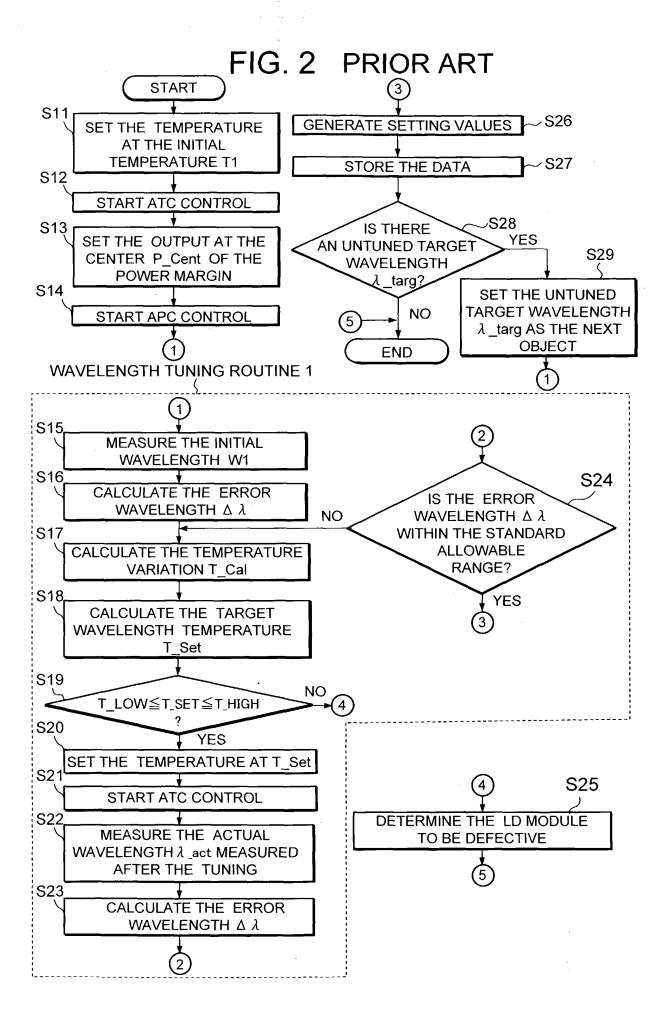


FIG. 3A PRIOR ART

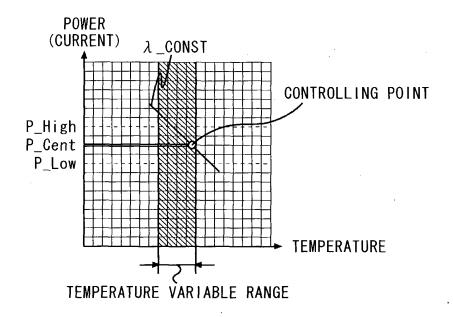


FIG. 3B PRIOR ART

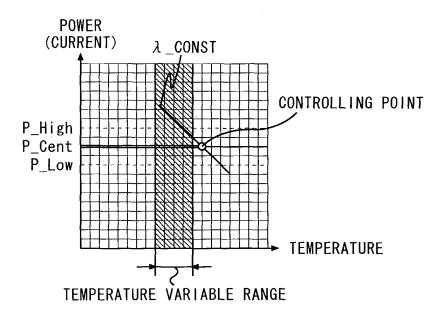


FIG. 4A

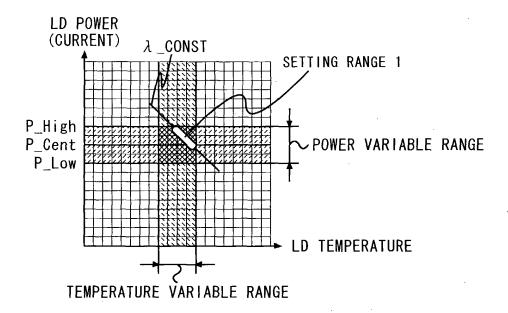
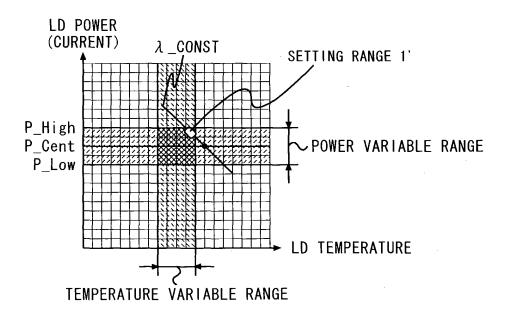


FIG. 4B



F1G. 5

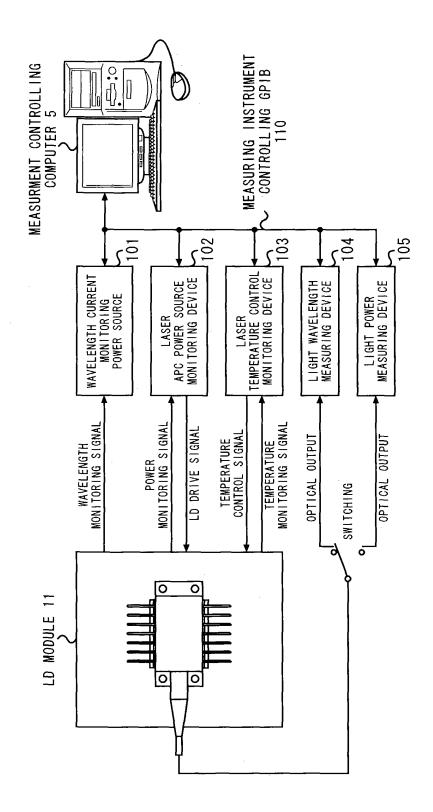


FIG.6

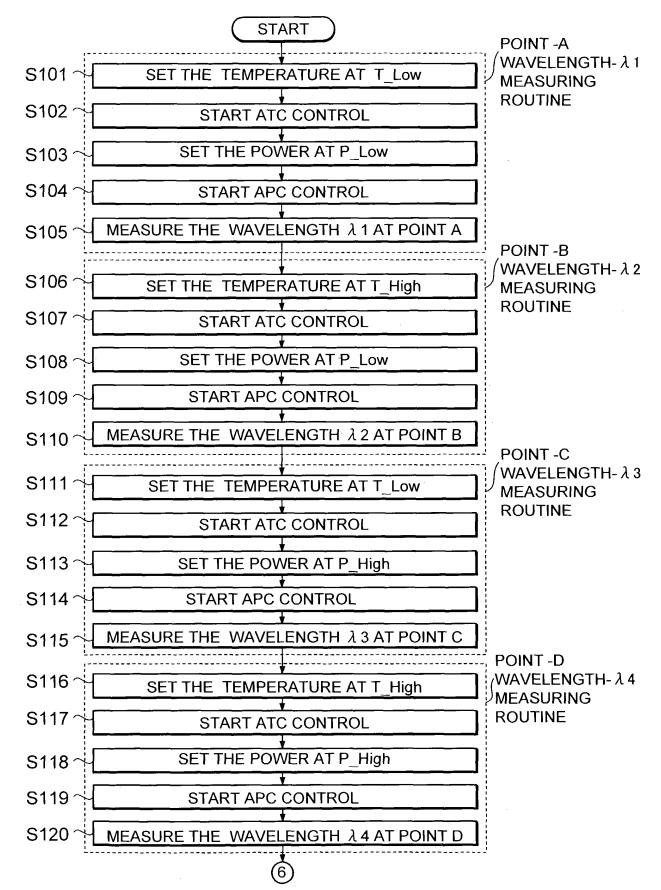


FIG.7

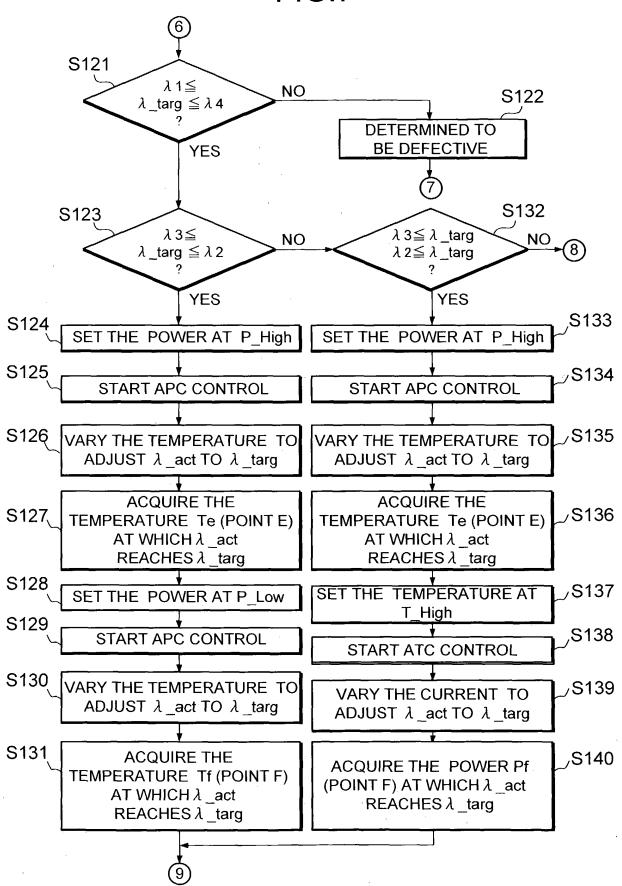


FIG.8

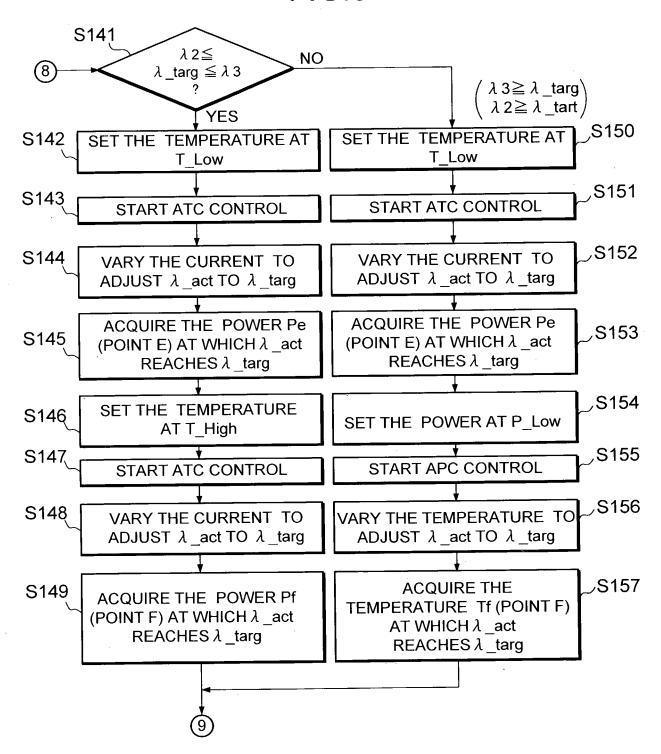


FIG.9

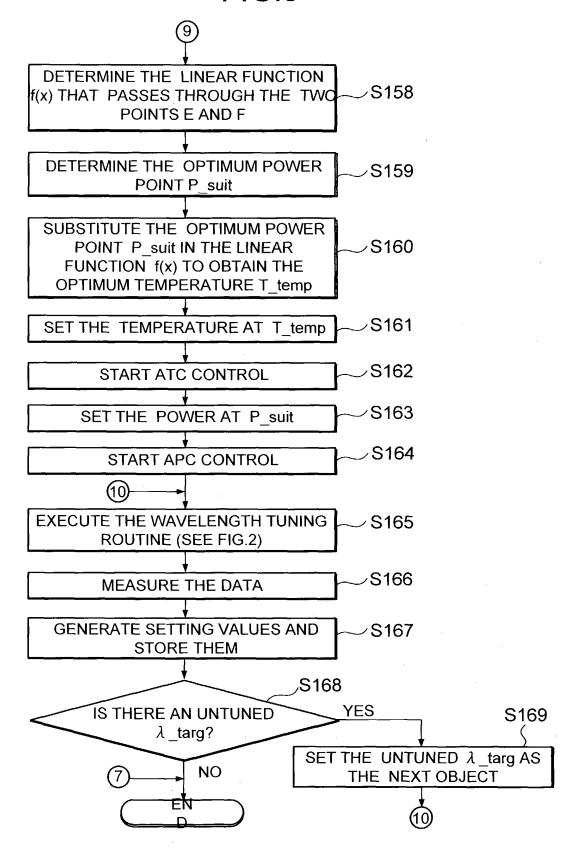


FIG. 10A

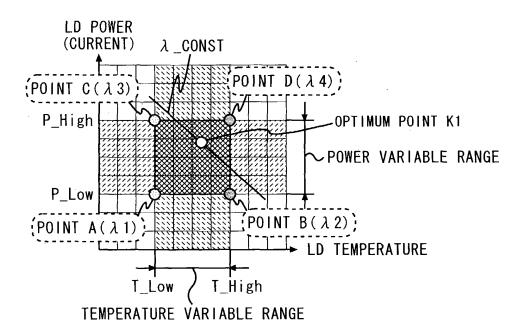
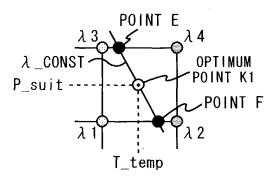
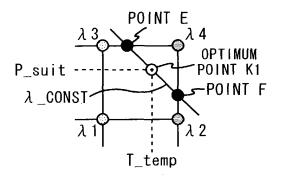


FIG. 10B

FIG. 10C



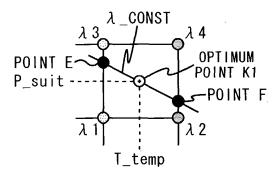
E/F POINTS MEASURING CONDITIONS
POINT E:POWER UPPER LIMIT(P_High)
POINT F:POWER LOWER LIMIT(P_Low)



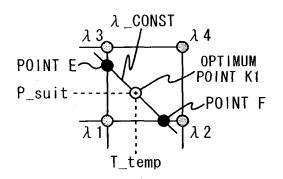
E/F POINTS MEASURING CONDITIONS
POWER E:POWER UPPER LIMIT(P_High)
POWER F:TEMPERATURE UPPER LIMIT(T_High)

FIG. 10D

FIG. 10E



E/F POINTS MEASURING CONDITIONS
POINT E:TEMPERATURE LOWER LIMIT(T_Low)
POINT F:TEMPERATURE UPPER LIMIT(T_High)



E/F POINTS MEASURING CONDITIONS
POINT E:TEMPERATURE LOWER LIMIT(T_Low)
POINT F:POWER LOWER LIMIT(P_Low)

FIG. 12A PRIOR ART

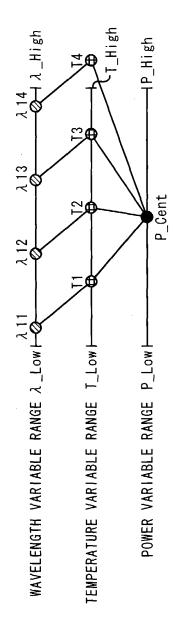


FIG. 12B

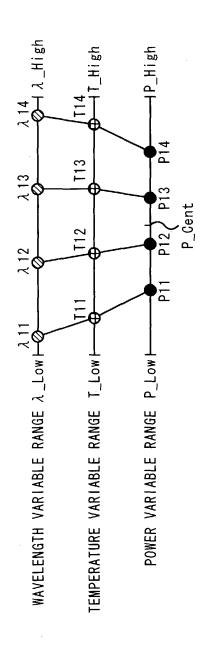
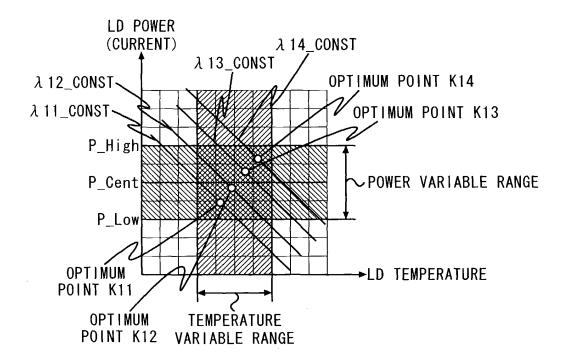


FIG. 13



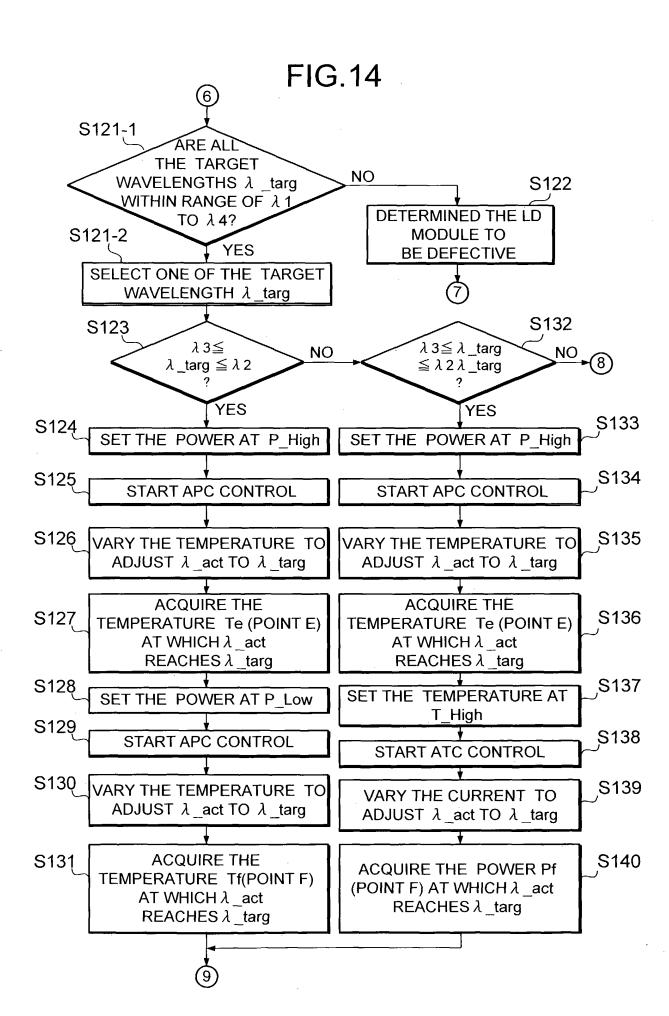
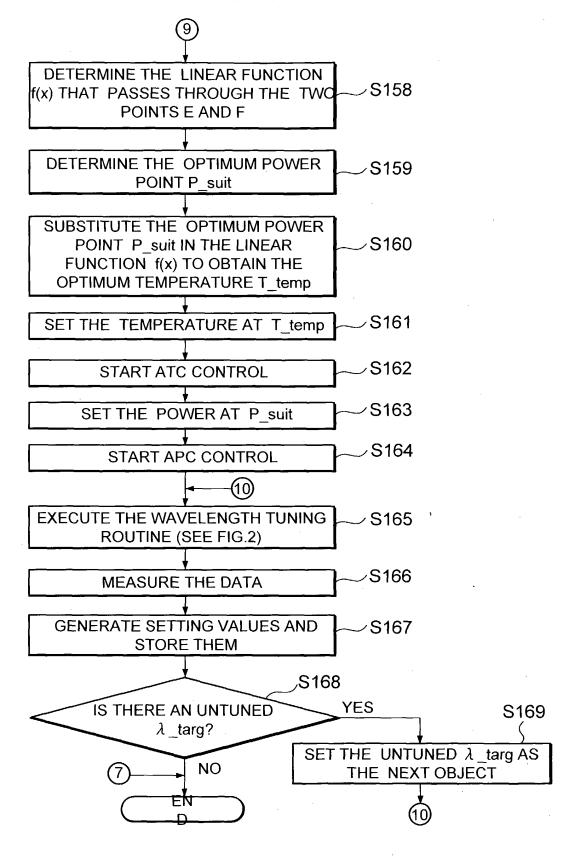


FIG.15



F1G. 16

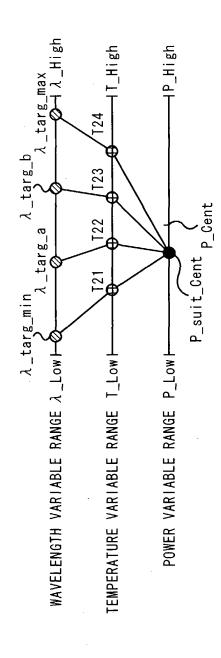


FIG. 17

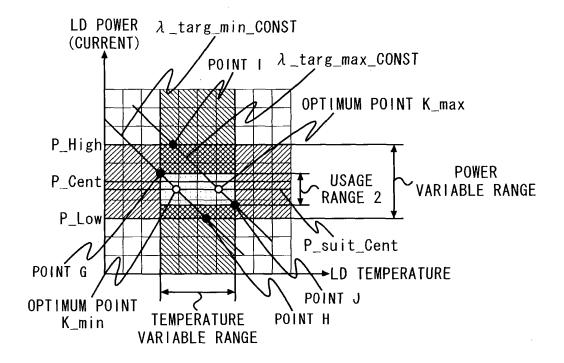
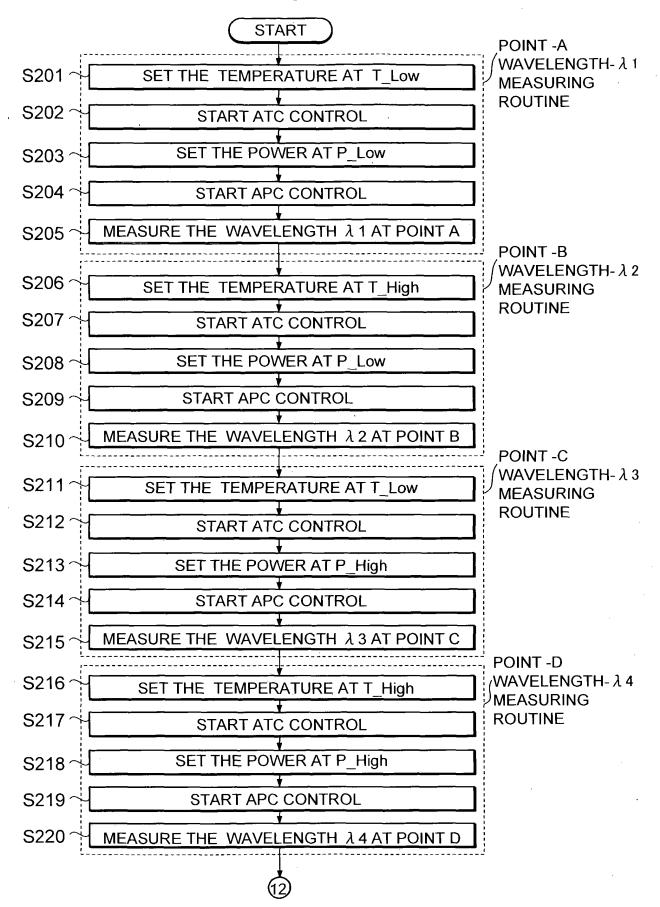


FIG.18



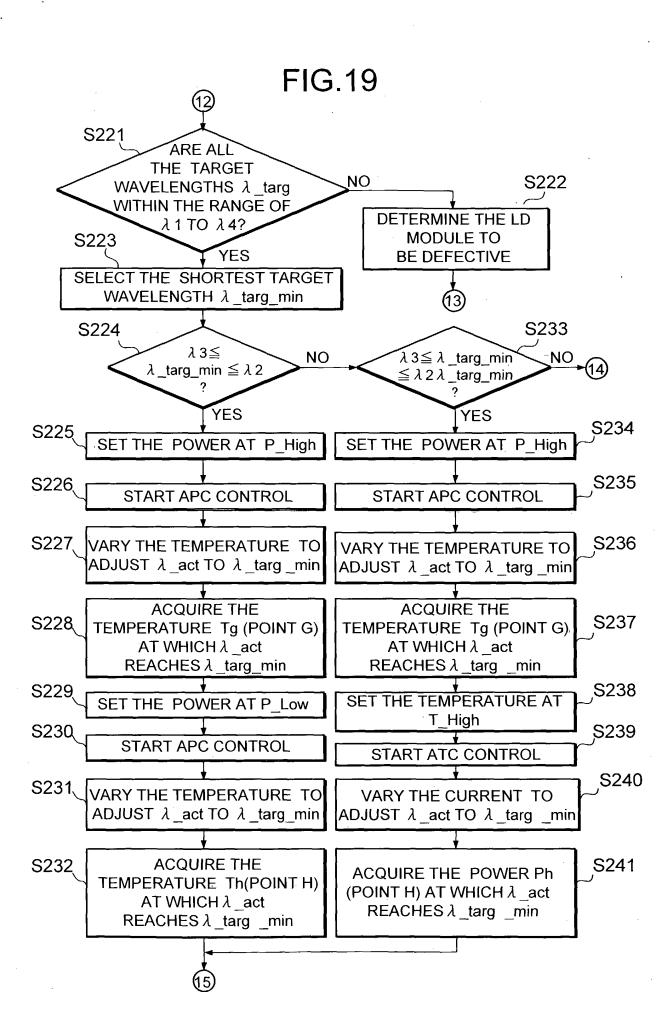


FIG.20

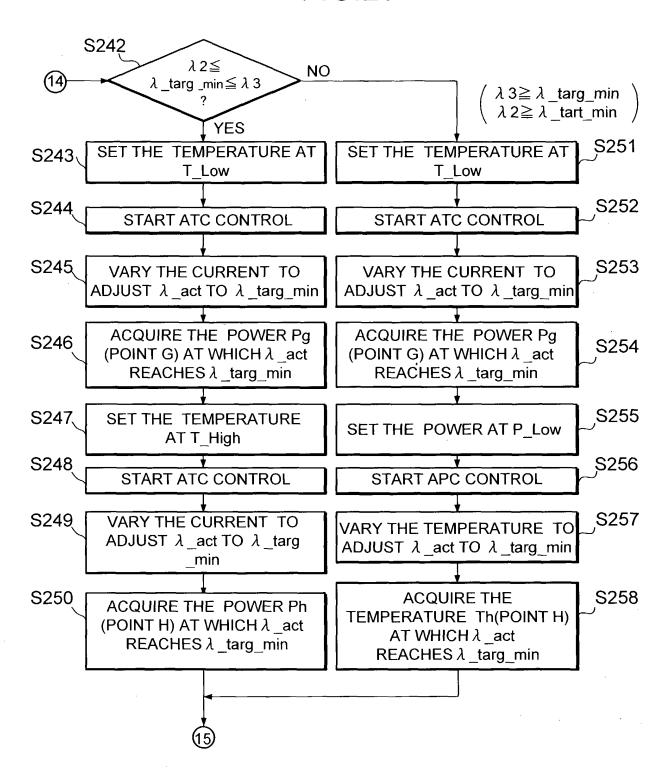


FIG.21

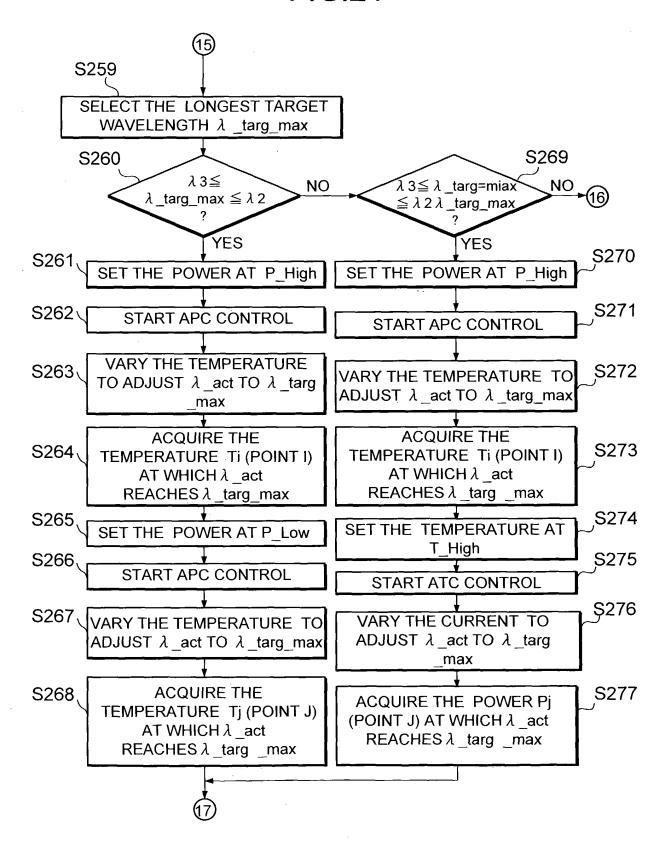


FIG.22

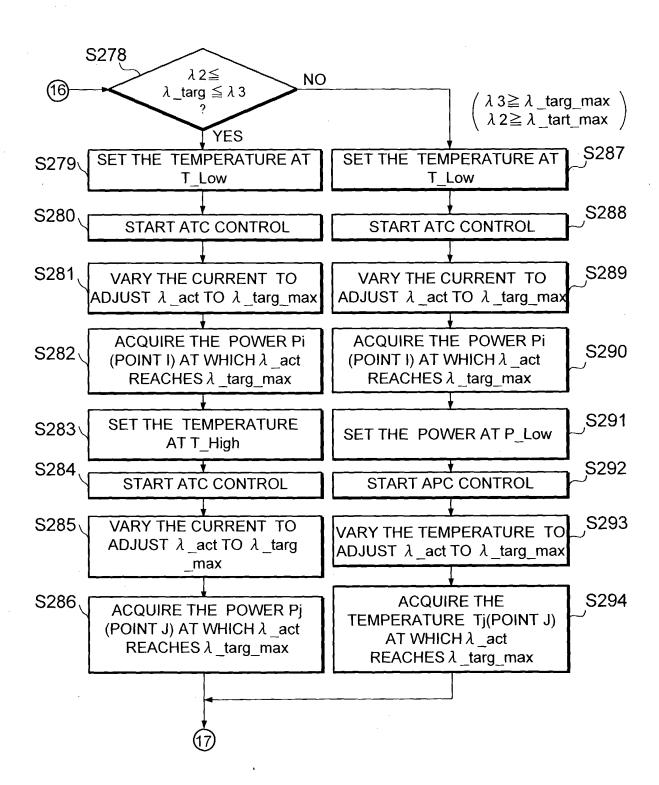


FIG.23 DETERMINE THE LINEAR FUNCTION S295 f1(x) THAT PASSES THROUGH THE TWO POINTS G AND H DETERMINE THE LINEAR FUNCTION f2(x) THAT PASSES THROUGH THE √S296 TWO POINTS I AND J DETERMINE THE USAGE RANGE 2 √S297 DETERMINE THE CENTER POINT P suit Cent OF THE POWER USAGE S298 **RANGE** SUBSTITUTE THE CENTER POINT S299 P suit Cent IN THE LINEAR FUNCTION f1(x) TO OBTAIN THE **OPTIMUM TEMPERATURE** T temp min FOR THE SHORTEST TARGET WAVELENGTH λ targ min SET THE TEMPERATURE AT S300 T temp min ∠S301 START ATC CONTROL ∠S302 SET THE POWER AT P suit Cent ∠S303 START APC CONTROL EXECUTE THE WAVELENGTH TUNING S304 **ROUTINE (SEE FIG.2)** S305 MEASURE THE DATA GENERATE SETTING VALUES AND ∠S306

STORE THEM

FIG.24

